

## AWS Migration Assignment - 3

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You have been asked to:

1. Launch an RDS MySQL database. Login and insert some data into it.
  2. Use Database Migration System to migrate the MySQL database into an RDS PostgreSQL database
-



## MySQL



MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.

- Supports database size up to 64 TiB.
- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
- Supports automated backup and point-in-time recovery.
- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-region.

## Create database

Choose a database creation method [Info](#)☒ Standard create

You set all of the configuration options, including ones for availability, security, backups, and maintenance.

☐ Easy create

Use recommended best-practice configurations. Some configuration options can be changed after the database is created.

## Engine options

Engine type [Info](#)☐ Amazon Aurora☒ MySQL☐ MariaDB☐ PostgreSQL☐ Oracle☐ Microsoft SQL Server

aws

Services

Search

[Alt+S]

N. Virginia

sachin @ sy-aws-v2

RDS

MySQL 8.0.28

### Templates

Choose a sample template to meet your use case.

☐ **Production**  
Use defaults for high availability and fast, consistent performance.

☐ **Dev/Test**  
This instance is intended for development use outside of a production environment.

☒ **Free tier**  
Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS.  
[Info](#)

### Availability and durability

Deployment options [Info](#)

The deployment options below are limited to those supported by the engine you selected above.

☒ **Multi-AZ DB Cluster - new**  
Creates a DB cluster with a primary DB instance and two readable standby DB instances, with each DB instance in a different Availability Zone (AZ). Provides high availability, data redundancy and increases capacity to serve read workloads.

☐ **Multi-AZ DB Instance (not supported for Multi-AZ DB cluster snapshot)**  
Creates a primary DB instance and a standby DB instance in a different AZ. Provides high availability and data redundancy, but the standby DB instance doesn't support connections for read workloads.

☐ **Single DB Instance (not supported for Multi-AZ DB cluster snapshot)**  
Creates a single DB instance with no standby DB instances.

## MySQL

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Feedback

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## Settings

### DB instance identifier [Info](#)

Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

### ▼ Credentials Settings

#### Master username [Info](#)

Type a login ID for the master user of your DB instance.

1 to 16 alphanumeric characters. First character must be a letter.

#### ☐ Manage master credentials in AWS Secrets Manager

Manage master user credentials in Secrets Manager. RDS can generate a password for you and manage it throughout its lifecycle.

#### ☐ Auto generate a password

Amazon RDS can generate a password for you, or you can specify your own password.

#### Master password [Info](#)

Constraints: At least 8 printable ASCII characters. Can't contain any of the following: / (slash), '(single quote), "(double quote) and @ (at sign).

#### Confirm master password [Info](#)

## MySQL

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## Instance configuration

The DB instance configuration options below are limited to those supported by the engine that you selected above.

DB instance class [Info](#)

- ☐ Standard classes (includes m classes)
- ☐ Memory optimized classes (includes r and x classes)
- ☒ Burstable classes (includes t classes)

db.t2.micro

1 vCPUs 1 GiB RAM Not EBS Optimized

☐ Include previous generation classes

## Storage

Storage type [Info](#)

General Purpose SSD (gp2)

Baseline performance determined by volume size

Allocated storage

20

GiB

The minimum value is 20 GiB and the maximum value is 6,144 GiB

## MySQL

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## Connectivity [Info](#)

### Compute resource

Choose whether to set up a connection to a compute resource for this database. Setting up a connection will automatically change connectivity settings so that the compute resource can connect to this database.

☒ **Don't connect to an EC2 compute resource**  
Don't set up a connection to a compute resource for this database. You can manually set up a connection to a compute resource later.

☐ **Connect to an EC2 compute resource**  
Set up a connection to an EC2 compute resource for this database.

### Network type [Info](#)

To use dual-stack mode, make sure that you associate an IPv6 CIDR block with a subnet in the VPC you specify.

☒ **IPv4**  
Your resources can communicate only over the IPv4 addressing protocol.

☐ **Dual-stack mode**  
Your resources can communicate over IPv4, IPv6, or both.

### Virtual private cloud (VPC) [Info](#)

Choose the VPC. The VPC defines the virtual networking environment for this DB instance.

Default VPC (vpc-0eb1b7cd372998710)

Only VPCs with a corresponding DB subnet group are listed.

**i** After a database is created, you can't change its VPC.

### DB Subnet group [Info](#)

## MySQL

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## Info

default ▼

## Info

RDS assigns a public IP address to the database. Amazon EC2 instances and other resources outside of the VPC can connect to your database. Resources inside the VPC can also connect to the database. Choose one or more VPC security groups that specify which resources can connect to the database.

RDS doesn't assign a public IP address to the database. Only Amazon EC2 instances and other resources inside the VPC can connect to your database. Choose one or more VPC security groups that specify which resources can connect to the database.

## Info

- Choose existing

☐ **Create new**  
Create new VPC security group

Choose one or more options ▼

default X

### Info

No preference

X

- Supports database size up to 64 TiB.
- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
- Supports automated backup and point-in-time recovery.
- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-region.

## ▼ Additional configuration

Database options, backup turned on, backtrack turned off, maintenance, CloudWatch Logs, delete protection turned off.

### Database options

Initial database name [Info](#)

If you do not specify a database name, Amazon RDS does not create a database.

DB parameter group [Info](#)

Option group [Info](#)

### Backup

☒ Enable automated backups

Creates a point-in-time snapshot of your database

⚠ Please note that automated backups are currently supported for InnoDB storage engine only. If you are using MyISAM, refer to details [here](#).

Backup retention period [Info](#)

The number of days (1-35) for which automatic backups are kept.

 days

Backup window [Info](#)

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Talking: Raj Kumar Suman

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Amazon RDS

Dashboard

Databases

Query Editor

Performance insights

Snapshots

Exports in Amazon S3

Automated backups

Reserved instances

Proxies

Subnet groups

Parameter groups

Option groups

Custom engine versions

Events

Event subscriptions

Recommendations 0

Certificate update

Creating database mysql-db

Your database might take a few minutes to launch.

View credential details

RDS > Databases

Consider creating a Blue/Green Deployment to minimize downtime during upgrades

You may want to consider using Amazon RDS Blue/Green Deployments and minimize your downtime during upgrades. A Blue/Green Deployment provides a staging environment for changes to production databases. [RDS User Guide](#) [Aurora User Guide](#)

Databases

Group resources

Refresh

Modify

Actions

Restore from S3

Create database

Filter by databases

1

	DB Identifier	Role	Engine	Region & AZ	Size	Status	CPU	Current activity	Maint
	mysql-db	Instance	MySQL Community	-	db.t2.micro	Creating	-		none

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Amazon RDS

Destinations

Databases

Query Editor

Performance Insights

Snapshots

Exports to Amazon S3

Automated backups

Reserved instances

Proxies

Subnet groups

Parameter groups

Default groups

Custom engine versions

Events

Event subscriptions

Recommendations

Certificate updates

Successfully created database mysql-db

View connection details

mysql-db

Summary

DB identifier: mysql-db

Role: instance

Connectivity & security

Endpoint & port

Endpoint: mysql-db.cnqtpvnbybop.us-east-1.rds.amazonaws.com

Port: 3306

Availability Zone: us-east-1a

VPC: vpc-0cb1b7fd57295f710

Subnet group

Class: db.t2.micro

Region & AZ: us-east-1a

VPC security groups: default (sg-0504425c71123ef7c)

Active

Publicly accessible: Yes

Modify

Actions

Connection details to your database mysql-db

This is the only time you will be able to view this password. Copy and save the password for your reference, otherwise you will need to modify the database to change it. You can use a SQL client application or utility to connect to your database.

Learn about connecting to your database

Master username: admin

Master password: admin123 Copy

Endpoint: mysql-db.cnqtpvnbybop.us-east-1.rds.amazonaws.com Copy

Learn more on how to connect a babelfish database.

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RDS Management Console

EC2 Management Console

+

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us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#SecurityGroup:group-id=sg-0304425e71123e87c

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aws Services Search [Alt+S]

RDS

New EC2 Experience

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

Images

AMI Catalog

Elastic Block Store

Volumes

sg-0304425e71123e87c - default

Details

Security group name

default

Security group ID

sg-0304425e71123e87c

Owner

424138477731

Inbound rules count

2 Permission entries

Inbound rules

Outbound rules

Tags

You can now check network connectivity with Reachability Analyzer

Inbound rules (2)

Filter security group rules

	Name	Security group rule...	IP version	Type
<input type="checkbox"/>	-	sgr-00039521b1896a...	IPv4	SSH
<input type="checkbox"/>	-	sgr-03fd99b0580fd441f	IPv4	All traffic

root@kali: ~

File Actions Edit View Help

→ Ctrl-C -- exit!

Aborted

(root@kali)-[~]

# mysql -h mysql-db.cnqtpvnbybop.us-east-1.rds.amazonaws.com -P 3306 -u admin -padmin123

Welcome to the MariaDB monitor. Commands end with ; or \g

Your MySQL connection id is 19

Server version: 8.0.28 Source distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MySQL [(none)]> show databases;

+-----+-----+  
| Database |  
+-----+-----+  
| information\_schema |  
| my\_db\_data |  
| mysql |  
| performance\_schema |  
| sys |  
+-----+-----+  
5 rows in set (0.225 sec)

MySQL [(none)]>

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```
MySQL [my_db_data]>
```





File Actions Edit View Help

```
MySQL [my_db_data]> CREATE TABLE `my_db_data`.`users` ( `username` VARCHAR(16) NOT NULL, `email` VARCHAR(255) NULL, `password` VARCHAR(32) NOT NULL, );
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near ')' at line 1
MySQL [my_db_data]> CREATE TABLE `my_db_data`.`users` ( `username` VARCHAR(16) NOT NULL, `email` VARCHAR(255) NULL, `password` VARCHAR(32) NOT NULL, `create_time` TIME
STAMP NULL DEFAULT CURRENT_TIMESTAMP);
Query OK, 0 rows affected (0.256 sec)
```

```
MySQL [my_db_data]> show tables
→ ;
```

Tables_in_my_db_data
users

1 row in set (0.235 sec)

```
MySQL [my_db_data]> select * from my_db_data.users;
Empty set (0.233 sec)
```

```
MySQL [my_db_data]> INSERT INTO `my_db_data`.`users`
→ (`username`,
→ `email`,
→ `password`,
→ `create_time`)
→ VALUES
→ ('sachin','sachin@gmail.com','admin123',CURRENT_TIMESTAMP);
Query OK, 1 row affected (0.237 sec)
```

```
MySQL [my_db_data]> 
```

Result Grid

Filter Rows

Export

Wrap Cell Contents

File Actions Edit View Help

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '))' at line 1  
MySQL [my\_db\_data]> CREATE TABLE `my\_db\_data`.`users` ( `username` VARCHAR(16) NOT NULL, `email` VARCHAR(255) NULL, `password` VARCHAR(32) NOT NULL, `create\_time` TIME  
STAMP NULL DEFAULT CURRENT\_TIMESTAMP);

Query OK, 0 rows affected (0.256 sec)

MySQL [my\_db\_data]> show tables

→ ;

Tables_in_my_db_data
users

1 row in set (0.235 sec)

MySQL [my\_db\_data]> select \* from my\_db\_data.users;

Empty set (0.233 sec)

MySQL [my\_db\_data]> INSERT INTO `my\_db\_data`.`users`

→ (`username`,

→ `email`,

→ `password`,

→ `create\_time`)

→ VALUES

→ ('sachin','sachin@gmail.com','admin123',CURRENT\_TIMESTAMP);

Query OK, 1 row affected (0.237 sec)

MySQL [my\_db\_data]> show tables;

Tables_in_my_db_data
users

1 row in set (0.233 sec)

MySQL [my\_db\_data]> select \* from my\_db\_data.users;

username	email	password	create_time
sachin	sachin@gmail.com	admin123	2022-12-28 15:59:16

1 row in set (0.232 sec)

MySQL [my\_db\_data]> █

Result Grid

Filter Rows

Export

Wrap Cell Contents

DMS > Replication instances > Create replication instance

## Create replication instance

### Settings

#### Name

The name must be unique among all of your replication instances in the current AWS region.

Replication instance name must not start with a numeric value

#### Descriptive Amazon Resource Name (ARN) - optional

A friendly name to override the default DMS ARN. You cannot modify it after creation.

#### Description - optional

The description must only have unicode letters, digits, whitespace, or one of these symbols: \_:/=+-@. 1000 maximum character.

### Instance configuration

#### Instance class

Choose an availability zone (AZ) where you want your instance to run. The default is "No preference", meaning that AWS DMS will determine which AZ to use. [DMS pricing](#)

2 vCPUs 4 GiB Memory

## Instance configuration

### Instance class

Choose an availability zone (AZ) where you want your instance to run. The default is "No preference", meaning that AWS DMS will determine which AZ to use. [DMS pricing](#)

dms.t3.medium  
2 vCPUs 4 GiB Memory

☐ Include previous-generation instance classes

### Engine version

Choose an AWS DMS version to run on your replication instance. [DMS versions](#)

3.4.7

☐ Include Beta DMS versions



#### Upgrades to versions 3.4.7 and higher

Upgrades to AWS DMS versions 3.4.7 and higher require that you configure AWS DMS to use VPC endpoints or use public routes. This requirement applies to source and target endpoints for S3, Kinesis, Secrets Manager, DynamoDB, Amazon Redshift, and OpenSearch Service. [Learn more](#)

[View endpoints](#)

### Multi AZ

The Multi-AZ option deploys a primary replication instance in one Availability Zone (AZ) and a standby in another AZ. The Single-AZ option deploys a single replication instance in one AZ. Billing is based on DMS pricing.

Dev or test workload (Single-AZ)

## Storage



Dev or test workload (Single-AZ)

## Storage

### Allocated storage (GiB)

Choose the amount of storage space you want for your replication instance. AWS DMS uses this storage for log files and cached transactions while replication tasks are in progress.

50

## Connectivity and security

### Network type - new Info

To use dual-stack mode, make sure that you associate an IPv6 CIDR block with a subnet in the VPC you specify.

#### ☒ IPv4

Replication instance with an IPv4 network type that supports IPv4 addressing.

#### ☐ Dual-stack mode

Replication instance with a dual network type that supports both IPv4 and IPv6 addressing.

### Virtual private cloud (VPC) for IPv4 Info

Choose the VPC where you want your replication instances to run. It includes VPCs in IPv4 and dual-stack mode.

Default VPC (vpc-0eb1b7cd372998710)

[Create a new VPC](#)

### Replication subnet group

Choose a subnet group for your replication instance. The subnet group defines the IP ranges and subnets that your replication instance can use within the VPC you've chosen.

default-vpc-0eb1b7cd372998710

Screenshot taken

View image

Screenshot taken

View image



Create a new VPC

### Replication subnet group

Choose a subnet group for your replication instance. The subnet group defines the IP ranges and subnets that your replication instance can use within the VPC you've chosen.

default-vpc-0eb1b7cd372998710

#### ☒ Public accessible

If you choose this option, AWS DMS will assign a public IP address to your replication instance, and you'll be able to connect to databases outside of your VPC.

#### Advanced settings

##### Availability zone

Choose an availability zone (AZ) where you want your replication instance to run. The default is "No preference", meaning that AWS DMS will determine which AZ to use.

No Preference

##### VPC security groups

Choose one or more security groups for your replication instances. The security groups specify inbound and outbound rules to control network access to your instance.

Choose VPC to select associated VPC security group

default  
default VPC security group

##### AWS KMS key

[Info](#)

aws/dms

#### Maintenance

## dms-vpc-role

Delete

Edit

### Summary

Creation date

December 28, 2022, 08:03 (UTC-08:00)

Last activity

None

ARN

arn:aws:iam::424138477731:role/dms-vpc-role

Maximum session duration

1 hour

Permissions

Trust relationships

Tags

Access Advisor

Revoke sessions

### Permissions policies (1) Info

You can attach up to 10 managed policies.



Simulate

Remove

Add permissions

Filter policies by property or policy name and press enter.

< 1 > ⚙

<input type="checkbox"/>	Policy name	Type	Description
<input type="checkbox"/>	AmazonDMSVPCManagementRole	AWS managed	Provides access to manage VPC settings for AWS managed customer configurations

### Permissions boundary - (not set) Info

Set a permissions boundary to control the maximum permissions this role can have. This is not a common setting but can be used to delegate permission management to others.

RDS > Create database

## Create database

### Choose a database creation method [Info](#)

☒ Standard create

You set all of the configuration options, including ones for availability, security, backups, and maintenance.

☐ Easy create

Use recommended best-practice configurations. Some configuration options can be changed after the database is created.

### Engine options

#### Engine type [Info](#)

☐ Amazon Aurora



☐ MySQL



☐ MariaDB



☒ PostgreSQL



☐ Oracle

ORACLE

☐ Microsoft SQL Server



## Templates

Choose a sample template to meet your use case.

### ☐ Production

Use defaults for high availability and fast, consistent performance.

### ☐ Dev/Test

This instance is intended for development use outside of a production environment.

### ☒ Free tier

Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS. [Info](#)

## Availability and durability

### Deployment options [Info](#)

The deployment options below are limited to those supported by the engine you selected above.

#### ☒ Multi-AZ DB Cluster - new

Creates a DB cluster with a primary DB instance and two readable standby DB instances, with each DB instance in a different Availability Zone (AZ). Provides high availability, data redundancy and increases capacity to serve read workloads.

#### ☐ Multi-AZ DB Instance (not supported for Multi-AZ DB cluster snapshot)

Creates a primary DB instance and a standby DB instance in a different AZ. Provides high availability and data redundancy, but the standby DB instance doesn't support connections for read workloads.

#### ☐ Single DB instance (not supported for Multi-AZ DB cluster snapshot)

Creates a single DB instance with no standby DB instances.

## Settings

### DB instance identifier [Info](#)

Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.

## Settings

### DB instance identifier [Info](#)

Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.

postgres

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

### ▼ Credentials Settings

#### Master username [Info](#)

Type a login ID for the master user of your DB instance.

postgres

1 to 16 alphanumeric characters. First character must be a letter.

#### ☐ Manage master credentials in AWS Secrets Manager

Manage master user credentials in Secrets Manager. RDS can generate a password for you and manage it throughout its lifecycle.

#### ☐ Auto generate a password

Amazon RDS can generate a password for you, or you can specify your own password.

#### Master password [Info](#)

\*\*\*\*\*

Constraints: At least 8 printable ASCII characters. Can't contain any of the following: / (slash), ' (single quote), " (double quote) and @ (at sign).

#### Confirm master password [Info](#)

\*\*\*\*\*

### Instance configuration



2 vCPUs 1 GiB RAM Network: 2,085 Mbps

☐ Include previous generation classes

### Storage

Storage type [Info](#)

General Purpose SSD (gp2)  
Baseline performance determined by volume size

Allocated storage

20 GiB

The minimum value is 20 GiB and the maximum value is 6,144 GiB

Storage autoscaling [Info](#)

Provides dynamic scaling support for your database's storage based on your application's needs.

☒ Enable storage autoscaling  
Enabling this feature will allow the storage to increase after the specified threshold is exceeded.

Maximum storage threshold [Info](#)

Charges will apply when your database autoscales to the specified threshold

1000 GiB

The minimum value is 22 GiB and the maximum value is 6,144 GiB

Connectivity [Info](#)

Refresh

Compute resource

Feedback Looking for language selection? Find it in the new [Unified Settings](#)

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## Connectivity Info



### Compute resource

Choose whether to set up a connection to a compute resource for this database. Setting up a connection will automatically change connectivity settings so that the compute resource can connect to this database.

☒ **Don't connect to an EC2 compute resource**  
Don't set up a connection to a compute resource for this database. You can manually set up a connection to a compute resource later.

☐ **Connect to an EC2 compute resource**  
Set up a connection to an EC2 compute resource for this database.

### Virtual private cloud (VPC) Info

Choose the VPC. The VPC defines the virtual networking environment for this DB instance.

Default VPC (vpc-0eb1b7cd372998710)

Only VPCs with a corresponding DB subnet group are listed.

**After a database is created, you can't change its VPC.**

### DB Subnet group Info

Choose the DB subnet group. The DB subnet group defines which subnets and IP ranges the DB instance can use in the VPC that you selected.

default

### Public access Info

- ☒ **Yes**  
RDS assigns a public IP address to the database. Amazon EC2 instances and other resources outside of the VPC can connect to your database. Resources inside the VPC can also connect to the database. Choose one or more VPC security groups that specify which resources can connect to the database.
- ☐ **No**  
RDS doesn't assign a public IP address to the database. Only Amazon EC2 instances and other resources inside the VPC can connect to your database. Choose one or more VPC security groups that specify which resources can connect to the database.

☐ No  
RDS doesn't assign a public IP address to the database. Only Amazon EC2 instances and other resources inside the VPC can connect to your database. Choose one or more VPC security groups that specify which resources can connect to the database.

#### VPC security group (firewall) [Info](#)

Choose one or more VPC security groups to allow access to your database. Make sure that the security group rules allow the appropriate incoming traffic.

☒ Choose existing  
Choose existing VPC security groups

☐ Create new  
Create new VPC security group

#### Existing VPC security groups

Choose one or more options

default X

#### Availability Zone [Info](#)

No preference

#### RDS Proxy

RDS Proxy is a fully managed, highly available database proxy that improves application scalability, resiliency, and security.

☐ Create an RDS Proxy [Info](#)

RDS automatically creates an IAM role and a Secrets Manager secret for the proxy. RDS Proxy has additional costs. For more information, see [Amazon RDS Proxy pricing](#).

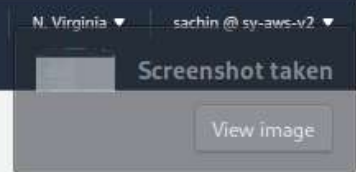
#### Additional configuration

##### Database port [Info](#)

TCP/IP port that the database will use for application connections.

5432

#### Database authentication



Instance using Kerberos Authentication.

## Monitoring

### Performance Insights [Info](#)

☒ Turn on Performance Insights [Info](#)

Retention period [Info](#)

7 days (free tier)

AWS KMS key [Info](#)


(default) aws/rds

Account

424138477731

KMS key ID

4cddc894-2e91-4694-8a0f-7718fbd36ac

 You can't change the KMS key after enabling Performance Insights.

#### ► Additional configuration

Enhanced Monitoring

#### ► Additional configuration

► Additional configuration

Enhanced Monitoring

▼ Additional configuration

Database options, encryption turned on, backup turned on, backtrack turned off, maintenance, CloudWatch Logs, delete protection turned off.

Database options

Initial database name [Info](#)

postgresqldb

If you do not specify a database name, Amazon RDS does not create a database.

DB parameter group [Info](#)

default.postgres13

Option group [Info](#)

default:postgres-13

Backup

☒ Enable automated backups

Creates a point-in-time snapshot of your database

Backup retention period [Info](#)

The number of days (1-35) for which automatic backups are kept:

7

days



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DMS > Endpoints > Create endpoint

## Create endpoint

### Endpoint type [Info](#)

☒ **Source endpoint**

A source endpoint allows AWS DMS to read data from a database (on-premises or in the cloud), or from other data source such as Amazon S3.

☐ **Target endpoint**

A target endpoint allows AWS DMS to write data to a database, or to other data source.

☐ Select RDS DB instance

### Endpoint configuration

#### Endpoint identifier [Info](#)

A label for the endpoint to help you identify it.

mysqldb-source

#### Descriptive Amazon Resource Name (ARN) - optional

A friendly name to override the default DMS ARN. You cannot modify it after creation.

Friendly-ARN-name

#### Source engine

The type of database engine this endpoint is connected to. [Learn more](#)

MySQL

Access to endpoint database

☐ AWS Secrets Manager

☒ Provide access information manually

Server name

The name of the data server for the data provider.

mysql-db.cnqtpvnbybop.us-east-1.rds.amazonaws.com

Port

The port the database runs on for this endpoint.

3306

User name [Info](#)

admin

Password [Info](#)

\*\*\*\*\*

Secure Socket Layer (SSL) mode

The type of Secure Socket Layer enforcement

none

▼ Endpoint settings

Define additional specific settings for your endpoints using wizard or editor. [Learn more](#)

☒ Wizard

Enter endpoint settings using the guided user interface.

☐ Editor

Enter endpoint settings in JSON format.

Endpoint settings

Add new setting

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KMS key

Tags

Test endpoint connection (optional)

VPC

vpc-0eb1b7cd372998710

Replication instance

A replication instance performs the database migration

mysqltopostgres

Run test

Endpoint Identifier	Replication Instance	Status	Message
No records found			

Cancel Create endpoint

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DMS > Endpoints > Create endpoint

## Create endpoint

### Endpoint type [Info](#)

☐ Source endpoint

A source endpoint allows AWS DMS to read data from a database (on-premises or in the cloud), or from other data source such as Amazon S3.

☒ Target endpoint

A target endpoint allows AWS DMS to write data to a database, or to other data source.

☒ Select RDS DB instance

RDS Instance

Instances available only for current user and region

postgres

### Endpoint configuration

Endpoint identifier [Info](#)

A label for the endpoint to help you identify it.

postgres

Descriptive Amazon Resource Name (ARN) - optional

A friendly name to override the default DMS ARN. You cannot modify it after creation.

Friendly ARN name

**Endpoint Identifier** [Info](#)

A label for the endpoint to help you identify it.

postgres

**Descriptive Amazon Resource Name (ARN) - optional**

A friendly name to override the default DMS ARN. You cannot modify it after creation.

Friendly-ARN-name

**Target engine**

The type of database engine this endpoint is connected to. [Learn more](#)

PostgreSQL

**Access to endpoint database**

- ☐ AWS Secrets Manager
- ☒ Provide access information manually

**Server name**

The name of the data server for the data provider.

postgres.cnqtpvnbybop.us-east-1.rds.amazonaws.com

**Port**

The port the database runs on for this endpoint.

5432

**User name** [Info](#)

postgres

**Password** [Info](#)

\*\*\*\*\*

**Secure Socket Layer (SSL) mode**

The type of Secure Socket Layer enforcement.

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Endpoint settings

KMS key

Tags

**Test endpoint connection (optional)**

VPC

vpc-0eb1b7cd372998710

Replication instance

A replication instance performs the database migration.

mysqltopostgres

Run test

Endpoint identifier	Replication instance	Status	Message
postgres	mysqltopostgres	testing	

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DMS > Endpoints

Endpoints (2)

Find endpoint

Actions

Create endpoint

< 1 > ⚙

<input type="checkbox"/>	Name	Type	Status	Engine	Server name	Port	Migration Hub Mapping	ARN
<input type="checkbox"/>	mysql-db-source	Source	Active	MySQL	mysql-db.cnqtpvnbybop.us-east-1.rds.amazonaws.com	3306		arn:aws:dms:us-east-1
<input type="checkbox"/>	postgres	Target	Active	PostgreSQL	postgres.cnqtpvnbybop.us-east-1.rds.amazonaws.com	5432		arn:aws:dms:us-east-1

## Create database migration task

### Task configuration

Task identifier

mysql-to-postgres

Descriptive Amazon Resource Name (ARN) - *optional*

A friendly name to override the default DMS ARN. You cannot modify it after creation.

Friendly-ARN-name

Replication instance

mysqltopostgres - vpc-0eb1b7cd372998710



#### Upgrades to versions 3.4.7 and higher

You have 1 instance that uses AWS DMS version 3.4.7. Upgrades to AWS DMS versions 3.4.7 and higher require that you configure AWS DMS to use VPC endpoints or use public routes. This requirement applies to source and target endpoints for these data stores: S3, Kinesis, Secrets Manager, DynamoDB, Amazon Redshift, and OpenSearch Service. [Learn more](#)

[View endpoints](#)

Source database endpoint

mysqlldb-source

Source database endpoint

mysqldb-source

Target database endpoint

postgres

Migration type [Info](#)

Migrate existing data

**When switching database engines, the AWS Schema Conversion Tool can automatically convert your database schema and code to the engine of your choice. Click here to find out more. [Learn more](#)**

**Task settings**

Editing mode [Info](#)

☒ **Wizard**  
You can enter only a subset of the available task settings.

☐ **JSON editor**  
You can enter all available task settings directly in JSON format.

Target table preparation mode [Info](#)

☐ Do nothing

☒ Drop tables on target

☐ Truncate

Include LOB columns in replication [Info](#)

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Editing mode

Wizard

You can enter only a subset of the available task settings.

JSON editor

You can enter all available task settings directly in JSON format.

Target table preparation mode

Do nothing

Drop tables on target

Truncate

Include LOB columns in replication

Don't include LOB columns

Full LOB mode

Limited LOB mode

Maximum LOB size (KB)

32

Turn on validation

Choose this setting if you want AWS DMS to compare the data at the source and the target immediately after it performs a full data load. Validation ensures that your data was migrated accurately, but it requires additional time to complete.

Task logs

Turn on CloudWatch logs

DMS task logging uses Amazon CloudWatch to log information during the migration process. You can change the component activities logged and the amount of information logged for each one.

Advanced task settings

Feedback

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► Advanced task settings

## Table mappings

Editing mode [Info](#)

☒ Wizard

You can enter only a subset of the available table mappings.

☐ JSON editor

You can enter all available table mappings directly in JSON format.

Specify at least one selection rule with an include action. After you do this, you can add one or more transformation rules.

▼ Selection rules

Choose the schema and/or tables you want to include with, or exclude from, your migration task. [Info](#)

[Add new selection rule](#)

▼ where **schema name** is like '%' and **Source table name** is like '%', include



Schema

Enter a schema

Source name

Use the % character as a wildcard

%

Source table name

Use the % character as a wildcard

%

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Source filters [Info](#)

Add column filter

Transformation rules

Premigration assessment [Info](#)

A premigration assessment warns you of potential migration issues before starting your migration task. Premigration assessments generally have minimal impact on your databases and take minimal time to run.

☐ Enable premigration assessment run

Migration task startup configuration

Start migration task

☒ Automatically on create

Available only if the premigration assessment is not enabled.

☐ Manually later

Tags

Cancel

Create task

## mysql-to-postgres



Actions ▼

Quick view and compare

### Summary

Status

Ready

Type

Full load

Source

[mysqlldb-source](#)

Target

[postgres](#)

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[Table statistics](#)

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### Overview details

#### Basic configuration

Task ARN

[arn:aws:dms:us-east-1:424138477731:task:AHJSNZ3OMRU7KWETNHS5YFQL6O4WEUJLWIENTCI](#)

Progress

-

Created

December 28, 2022 at 08:49:58 (UTC-08:00)

Stopped

Replication Instance

[mysqltostgres](#)

Last failure message

-

Started

-

Task logs [Info](#)

Not enabled

DMS > Database migration tasks > mysql-to-postgres

mysql-to-postgres

Summary

Status

Type

Source

Target

Ready

Full load

mysqlpdb-source

postgres

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Table statistics (0)

Total rows include loaded source table rows from Inserts, Deletes, Updates, DDLs, and Full load rows.

Find schema

< 1 >

Schema name

Table

Load state

Elapsed load time

Inserts

Deletes

Updates

DDLs

Applied Inserts

Applied deletes

No table statistics record found.

Start this task to view the table statistics.

Start

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mysql-to-postgres starting in progress.

DMS > Database migration tasks

**Database migration tasks (1)** [Refresh](#) [Actions](#) [Quick view and compare](#) [Create task](#)

<input type="checkbox"/>	Identifier	Status	Progress	Type	Source	Target	Replication Instance	Started	Stopped
<input type="checkbox"/>	mysql-to-postgres	Starting		Full load	mysqldb-source	postgres	mysqltopostgres	December 28, 2022 at 08:50:59 (UTC-08:00)	-



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us-east-1.console.aws.amazon.com/dms/v2/home?region=us-east-1#taskDetails/mysql-to-postgres

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Total rows include loaded source table rows from Inserts, Deletes, Updates, DDLs, and Full load rows.

Find schema

< 1 2 3 4 > ⚙

<input type="checkbox"/>	Schema name	Table	Load state	Elapsed load time	Inserts	Deletes	Updates	DDLs
<input type="checkbox"/>	mysql	server_cost	Table completed	< 1 s	0	0	0	0
<input type="checkbox"/>	mysql	tables_priv	Table completed	1 s	0	0	0	0
<input type="checkbox"/>	mysql	gtid_executed	Table completed	< 1 s	0	0	0	0
<input type="checkbox"/>	mysql	replication_asynchronous_connection_failover	Table completed	< 1 s	0	0	0	0
<input type="checkbox"/>	mysql	replication_asynchronous_connection_failover_managed	Table completed	< 1 s	0	0	0	0
<input type="checkbox"/>	mysql	replication_group_configuration_version	Table completed	1 s	0	0	0	0
<input type="checkbox"/>	mysql	replication_group_member_actions	Table completed	< 1 s	0	0	0	0
<input type="checkbox"/>	mysql	procs_priv	Table completed	< 1 s	0	0	0	0
<input type="checkbox"/>	mysql	innodb_table_stats	Table completed	< 1 s	0	0	0	0
<input type="checkbox"/>	mysql	plugin	Table completed	< 1 s	0	0	0	0
<input type="checkbox"/>	mysql	columns_priv	Table completed	< 1 s	0	0	0	0
<input type="checkbox"/>	mysql	innodb_index_stats	Table completed	< 1 s	0	0	0	0
<input type="checkbox"/>	mysql	rds_sysinfo	Table completed	< 1 s	0	0	0	0
<input type="checkbox"/>	performance_schema	error_log	Table completed	1 s	0	0	0	0

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# mysql-to-postgres

Refresh

Actions

Quick view and compare

## Summary

Status	Type	Source	Target
Running	Full load	mysqldb-source	postgres

Overview details

Table statistics

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Premigration assessments

Tags

## Table statistics (158)

Total rows include loaded source table rows from Inserts, Deletes, Updates, DDLs, and Full load rows.

Refresh

Export to CSV

Validate again

Reload table data

Find schema

< 1 2 3 4 >

Settings

	Schema name	Table	Load state	Elapsed load time	Inserts	Deletes	Updates	DDLs
<input type="checkbox"/>	mysql	server_cost	Table completed	< 1 s	0	0	0	0
<input type="checkbox"/>	mysql	tables_priv	Table completed	1 s	0	0	0	0
<input type="checkbox"/>	mysql	gtid_executed	Table completed	< 1 s	0	0	0	0
<input type="checkbox"/>	mysql	replication_asynchronous_connection_failover	Table completed	< 1 s	0	0	0	0

# mysql-to-postgres

Refresh

Actions

Quick view and compare

## Summary

Status	Type	Source	Target
Running	Full load	mysqldb-source	postgres

Overview details

Table statistics

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Premigration assessments

Tags

## Table statistics (158)

Total rows include loaded source table rows from Inserts, Deletes, Updates, DDLs, and Full load rows.

Refresh

Export to CSV

Validate again

Reload table data

Find schema

< 1 2 3 4 >

Settings

	Schema name	Table	Load state	Elapsed load time	Inserts	Deletes	Updates	DDLs
<input type="checkbox"/>	mysql	server_cost	Table completed	< 1 s	0	0	0	0
<input type="checkbox"/>	mysql	tables_priv	Table completed	1 s	0	0	0	0
<input type="checkbox"/>	mysql	gtid_executed	Table completed	< 1 s	0	0	0	0
<input type="checkbox"/>	mysql	replication_asynchronous_connection_failover	Table completed	< 1 s	0	0	0	0